SEQUENCE LISTING

<110> Stewart, A. F.
      Zhang, Y.
      Hallet, B.

<120> A New Tyrosine Recombinase for Genetic Engineering

<130> 9882-012-999

<160> 10

<170> PatentIn version 3.0

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caatattaat tgtgttgtat taggtgttat aataaatata aatctagggg tttaacgcaa   180
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cacaatatta attgtgttgt attaggtgtt ataataaata taaatctagg ggtttaacgc   180
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acc gag aac act gtt cag gga tac aca tca ggt att aga cag tac ata        96
Thr Glu Asn Thr Val Gln Gly Tyr Thr Ser Gly Ile Arg Gln Tyr Ile
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aaa tgg ttt gaa ggt tcc tat gac aga aaa ttg aca aaa ttg tac cga       144
Lys Trp Phe Glu Gly Ser Tyr Asp Arg Lys Leu Thr Lys Leu Tyr Arg
            35                  40                  45
caa aat atc tta gag tac att agt tat tta aag aat gtc aaa atg ttg       192
Gln Asn Ile Leu Glu Tyr Ile Ser Tyr Leu Lys Asn Val Lys Met Leu
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aac gcc aag tcc att aac cac aag att agt agc ctt gct aaa ttt aat       240
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65                  70                  75                  80
gaa ttt cta ata cag aaa gga agt caa caa gat caa gta att tta tta       288
Glu Phe Leu Ile Gln Lys Gly Ser Gln Gln Asp Gln Val Ile Leu Leu
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gat gta aaa aag ttt tta caa agt gtg tta gag gat aat aac aaa cgt       336
Asp Val Lys Lys Phe Leu Gln Ser Val Leu Glu Asp Asn Asn Lys Arg
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Asn Tyr Ala Ile Ala Thr Leu Leu Ala Tyr Thr Gly Val Arg Ile Ser
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Cys Ile Ile Arg Ser Gly Lys Gly Gly Lys Gln Arg Ile Val Leu Leu
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Asn Ser Lys Val Leu Ser Ala Ile Lys Asp Tyr Leu Ile Asp Arg Lys
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aca tac agt aca gca cat gaa tct ccg tat ctt ttt att agt aaa aag       576
Thr Tyr Ser Thr Ala His Glu Ser Pro Tyr Leu Phe Ile Ser Lys Lys
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Cys Ile Ile Arg Ser Gly Lys Gly Gly Lys Gln Arg Ile Val Leu Leu
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Arg Glu Lys Leu Asp Arg Thr Val Val Asn Arg Ile Phe Lys Ser Tyr
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Arg Asn Val Ile Thr Pro His Gln Leu Arg His Phe Phe Cys Thr Asn
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Ala Ile Gln Lys Gly Phe Ser Ile His Glu Val Ala Asn Gln Ala Gly
225                 230                 235                 240

His Ser Asn Ile His Thr Thr Leu Leu Tyr Thr Asn Pro Asn Gln Leu
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Gln Leu Lys Asn Lys Met Glu Leu Leu
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ttta   124